

EDUCATION

Master of Science in Cybersecurity, Indiana University Bloomington, IN, USA

GPA: 3.8 / 4.0

Courses: Applied Algorithm, Security for Networked System, Advanced System Security, Malware Threat Defense Jan 2022 – Dec 2023

Bachelor of Engineering in Computer Engineering, University of Mumbai, Maharashtra, India

GPA: 3.7 / 4.0

Courses: Data Structures, Computer Networks, Machine Learning, Digital Forensics, Cryptography Aug 2016 – Sep 2020

SKILLS

Languages:	Python, Java, Go, C#, C++, Bash (Shell Scripting), Dart, JavaScript, TypeScript, Swift, PHP, Kotlin, HTML/CSS
Frameworks:	React, Angular, Spring Boot, Node.js, Three.js, Next.js, Vue.js, Tailwind CSS, Django, .NET, Flutter, Android, iOS, Flask
Databases:	PostgreSQL, MySQL, SQL Server, MongoDB, Firebase, NoSQL, GraphQL
Tools:	Git, Postman, Figma, VS Code, JIRA, Eclipse, Apache, JMeter, Cypress, Selenium, Appium, JUnit, gRPC, SoapUI
Other Technologies:	Docker, Containerization, CI/CD, Microservices, Kubernetes, AWS (S3, Lambda, IAM, EC2), Azure, Linux, DevOps
Cybersecurity:	Corporate Identity, Endpoint Security, Data Loss Prevention, Device Trust, SaaS Security, Zero Trust, Debugging, TCP, IP, VLANs, VPNs, Troubleshoot, Network Security, DNS, DHCP, Routing Protocols Ghidra, IDA Pro, Metasploit

WORK EXPERIENCE

Software Engineer II | Indiana University | Remote, USA | [Google Play Store](#) & [Apple App Store](#)

May 2023 – Present

- Led **HIPAA-compliant development of an AI-powered chatbot** for Alzheimer's by leveraging ChatGPT to enhance readability and **LLM models**, engaging over 50,000 users and increasing interaction by 40% in the African American community.
- Developed a cross-platform mobile application built with **Flutter** for Alzheimer's support, working closely with design and QA teams to **boost engagement with 10,000+ iOS and Android users** and elevate accessibility for dementia patients.
- Utilized **Docker and Kubernetes** to deploy healthcare app features in isolated containers while conducting comprehensive **testing with Selenium and JUnit**, achieving a 98% crash-free rate for 5,000 daily users and **strengthening data security for 3,000 patients**.
- Adopted **MVVM architecture** in a React app for stress monitoring, doing 99.9% uptime, proactively optimizing and improving user health tracking accuracy with PostgreSQL integration for robust data management.

Graduate Associate Instructor | Indiana University | Indiana, USA

Aug 2022 – May 2023

- Facilitated **problem-solving** skills for 150 students in **Applied Algorithms**, educating through interactive sessions.
- Delivered security knowledge to 80 students, introducing innovative exercises on DES, AES, and Cipher techniques, **advancing student proficiency in cybersecurity topics**, and demonstrating effective educational engagement and subject mastery.

Software Engineer | Daxy – The Digital Taxi | Mumbai, India

Jun 2020 – Dec 2021

- Created a **Progressive Web App (PWA)** for B2B e-commerce employing **React** and **Django**, boosting diamond customization sales and raising product listings by 250 items, showcasing advanced UI design skills.
- Engineered responsive full-stack e-commerce sites with **Angular, Vue.js**, and **REST APIs**, facilitating team coordination to streamline workflows with **Apache Airflow for ETL**.
- Leveraged **MongoDB** and **Node.js** to architect a secure e-commerce platform, reducing catalog management efforts by 35% and **integrating CAPTCHAs and Stripe**, fortifying system security achieving 99% reduction in fraud.
- Built responsive e-commerce systems employing **Django** and **Next.js**, **optimized with Azure DevOps for CI/CD**, resulting in a **scalable architecture** supporting extensive inventory management.

PROJECTS

How Can Disney+ Widen Subscriber Base? | [GitHub](#):

Oct 2023 – Dec 2023

- Directed comprehensive data analysis on over 1800 Disney+ titles using **web scraping and SQL**, resulting in actionable recommendations to increase subscriber growth.
- Formulated 50+ complex **SQL queries for data systems analysis**, improving subscriber data handling and reporting efficiency.

Automated SQL Injection Attack:

Mar 2023 – May 2023

- Executed **Python for SQL Injection**, enhancing database security by programming sensitive data, in line **OWASP's vulnerabilities**.
- Created an automated solution to pinpoint SQL Injection vulnerabilities, cutting down manual identification of susceptible tables and columns by 80%, thereby streamlining security auditing process and mitigating risk exposure in large-scale databases.

Data Analysis on Psychometric Assessments | [GitHub](#):

Jan 2023 – Apr 2023

- Developed a mobile application implementing Flutter, introducing mobile versions of psychological tests to 2,000+ users.
- Crafted **150+ data extraction routines with SQL and Python**, analyzing responses from 2,500+ users, **augmenting cybersecurity awareness and data analysis capabilities** using machine learning and statistical methods.

Reverse Engineering using IDA Pro:

Sep 2022 – Dec 2022

- Conducted reverse engineering analysis utilizing **IDA Pro**, identifying 200+ **unnecessary data extraction methods and strengthening security and privacy** on 1,000+ Swift-based iOS devices.
- Implemented reverse engineering techniques to **uncover vulnerabilities, reducing app security risks** by 60% in research project.